

## PATENTS

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: : Conf. No.: 7327  
ROSHDY GEORGE S. BARSOUM, RODNEY :  
O. PETERSON, DAVID P. OWEN, WAYNE :  
C. JONES and DAVID E. JOHNSON :  
Serial No.: 10/829,616 : Art Unit: 3676  
Filing Date: 04/22/04 :  
Attorney Docket No.: 96,151 :  
Title: MINE AND COLLISION :  
PROTECTION FOR PASSENGER VEHICLE :

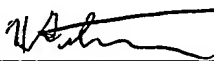
RECEIVED  
CENTRAL FAX CENTER

OCT 04 2004

INFORMATION DISCLOSURE STATEMENT BY APPLICANTU.S. PATENT DOCUMENTS

HG Mohr et al. U.S. Patent 6,792,843 B2 issued 21 September 2004  
Shih et al. U.S. Patent 6,532,857 B1 issued 18 March 2003  
Neal U.S. Patent 6,510,777 B2 issued 28 January 2003  
Barsoum U.S. Patent 6,386,131 B1 issued 14 May 2002  
Daqis et al. U.S. Patent 5,792,974 issued 11 August 1998  
Rousseau U.S. Patent 5,789,327 issued 04 August 1998  
Schade et al. U.S. Patent 5,705,764 issued 06 January 1998  
Park U.S. Patent 5,635,288 issued 03 June 1997  
Vives U.S. Patent 5,221,807 issued 22 June 1993  
Grillo U.S. Patent 4,738,893 issued 19 April 1988  
Smith, Jr. U.S. Patent 4,732,803 issued 22 March 1988  
Gerber et al. U.S. Patent 4,665,794 issued 19 May 1987  
Miguel U.S. Patent 4,404,889 issued 20 September 1983

EXAMINER SIGNATURE



DATE CONSIDERED

1/3/05

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the United States  
Patent and Trademark Office (Fax No. (703) 872-9308) on Monday, October 4, 2004.



Howard Kaiser

## PATENTS

PENDING U.S. PATENT APPLICATIONS<sup>1</sup>

Itg U.S. provisional patent application serial no. 60/564,584, filing date 23 April 2004, attorney docket no. 96,026, invention entitled "Steel or Ceramic Armor Encapsulated or Sandwiched by a Polymer Having High Stress Hardening," inventors Roshdy George S. Barsoum and Phillip Dudd

Itg U.S. nonprovisional patent application serial no. 10/864,317, filing date 10 June 2004, attorney docket no. 96,026, invention entitled "Armor Including a Strain Rate Hardening Elastomer," inventors Roshdy George S. Barsoum and Phillip Dudd

<sup>1</sup>please note the USPTO's "Waiver of the Copy Requirement in 37 CFR 1.98 for Cited Pending U.S. Patent Applications," effective 21 September 2004.

NON-PATENT DOCUMENTS

Itg Amy Klumper, "Defense Seeks to Shift \$190M to Improve Armor for Humvees," article dated 23 March 2004, *Government Executive Magazine* website, www.govexec.com; article located at <http://www.govexec.com/daillyfed/0304/032304cdpm2.htm>, printer friendly version printed out (1 page) on 04 October 2004 at [http://www.govexec.com/story\\_page.cfm?articleId=28059&printerfriendlyVers=1&](http://www.govexec.com/story_page.cfm?articleId=28059&printerfriendlyVers=1&)

EXAMINER SIGNATURE



DATE CONSIDERED

9/3/05

Respectfully submitted,



HOWARD KAISER  
Reg. No. 31,381  
ATTORNEY FOR APPLICANT

10/04/04  
date

Office of Counsel (Patents), Code 39, Naval Surface Warfare Center, Carderock Division  
8500 MacArthur Boulevard, West Bethesda, Maryland 20817-5700  
phone (301) 227-1834 fax (301) 227-1988  
October 4, 2004

## PATENTS

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: : Conf. No.: 7327  
ROSHDY GEORGE S. BARSOUM, RODNEY :  
O. PETERSON, DAVID P. OWEN, WAYNE :  
C. JONES and DAVID E. JOHNSON :

Serial No.: 10/829,616 :  
Filing Date: 04/22/04 :  
Attorney Docket No.: 96,151 :

Art Unit: 3676

RECEIVED  
CENTRAL FAX CENTER

OCT 18 2004

Title: MINE AND COLLISION  
PROTECTION FOR PASSENGER VEHICLE :

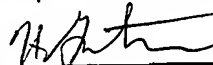
SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

## NON-PATENT DOCUMENTS

Hg P.E. Cros, L. Rota, C.E. Cottenot, R. Schirrer and C. Fond, "Experimental and Numerical Analysis of the Impact Behaviour of Polycarbonate and Polyurethane Multilayer," *J. Phys. IV France* 10, pages Pr9-671 to Pr9-676, 2000, EDP Sciences, Les Ulis, France\*

Hg P.E. Cros, L. Rota, C.E. Cottenot, R. Schirrer and C. Fond, "Experimental Study and Numerical Simulations of the Impact Behaviour of Polycarbonate and Polyurethane Multilayer," 6 pages, apparently printed in 2000 or later, unknown whether or when published\*

\* The two above-cited documents appear to be practically identical, but with different titles. The former (Cros. et al. "Experimental and Numerical Analysis of the Impact Behaviour of Polycarbonate and Polyurethane Multilayer") is indicated as reference "[9]" in the latter (Cros. et al. "Experimental Study and Numerical Simulations of the Impact Behaviour of Polycarbonate and Polyurethane Multilayer").

EXAMINER SIGNATURE  DATE CONSIDERED 7/31/05

Respectfully submitted,

  
HOWARD KAISER

Reg. No. 31,381

ATTORNEY FOR APPLICANT

10/18/04  
date

Office of Counsel (Patents), Code 39, Naval Surface Warfare Center, Carderock Division  
9500 MacArthur Boulevard, West Bethesda, Maryland 20817-5700  
phone (301) 227-1834 fax (301) 227-1888  
October 18, 2004

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office (Fax No. (703) 872-9308) on Monday, October 18, 2004.

  
Howard Kaiser

SECOND IDS

10/829,616

Page 1 of 1

## PATENTS

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: : Conf. No.: 7327  
ROSHDY GEORGE S. BARSOUM, RODNEY :  
O. PETERSON, DAVID P. OWEN, WAYNE :  
C. JONES and DAVID E. JOHNSON :  
Serial No.: 10/829,616 : Art Unit: 3676  
Filing Date: 04/22/04 :  
Attorney Docket No.: 96,151 :  
Title: MINE AND COLLISION :  
PROTECTION FOR PASSENGER VEHICLE :

THIRD INFORMATION DISCLOSURE STATEMENT BY APPLICANTPATENT DOCUMENTS

HG Kim U.S. Patent 6,298,963 B1 issued 09 October 2001

NON-PATENT DOCUMENTS

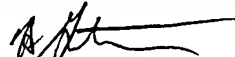
HG William Palmer, "Division Engineers Aid in Bolstering Protection for Marines in Iraq," *Wavelengths Online*, published online on 21 July 2004 at <http://www.dt.navy.mil/wavelengths/archives/000095.html>, one page printed out on 03 February 2005

HG William Palmer, "Division Engineers Aid in Bolstering Protection for Marines in Iraq," *Wavelengths* (An Employee Digest of Events and Information), Naval Sea Systems Command, Naval Surface Warfare Center, Carderock Division, July 2004 issue, page 11 (incl. photograph)

HG Edward M. Kennedy, Brian Hart and Alma Hart, "Pentagon Still Failing to Protect the Troops," *The Boston Globe*, article dated 03 February 2005, two pages (printer friendly version) printed out online at [http://www.boston.com/news/globe/editorial\\_opinion/oped/articles/2005/02/03/pentagon\\_still\\_failing\\_to\\_protect\\_the\\_troops?mode=PE](http://www.boston.com/news/globe/editorial_opinion/oped/articles/2005/02/03/pentagon_still_failing_to_protect_the_troops?mode=PE) on 03 February 2005

HG Craig Gordon, "Unfit for Combat: Humvees Need Armor to Give Them a Fighting Chance," *Washington Bureau*, article dated 14 December 2003, five pages printed out online at <http://www.geocities.com/equipmentshop/hmmwv.htm> on 15 March 2004

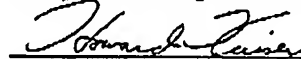
EXAMINER SIGNATURE



DATE CONSIDERED

7/3/05

Respectfully submitted,



HOWARD KAISER

Reg. No. 31,381

ATTORNEY FOR APPLICANT

02/09/05  
date

Office of Counsel (Patents), Code 39, Naval Surface Warfare Center, Carderock Division  
9500 MacArthur Boulevard, West Bethesda, Maryland 20817-5700  
phone (301) 227-1834 fax (301) 227-1968

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office (Fax No. (703) 872-9306) on Wednesday, February 9, 2005.



Howard Kaiser